

IN THE CLAIMS:

Please cancel claims 2 and 11 without prejudice and amend the claims as follows:

1. (Currently Amended) A method, comprising:
acquiring, or retrieving from storage, seismic data representative of acceleration wavefield;
of processing the seismic data representative of the acceleration wavefield ~~thereby~~ to obtain information about the earth's subsurface direct from the seismic data representative of the acceleration wavefield; and
wherein said processing comprises attenuating coherent noise in a high frequency range in the seismic data.
2. (Cancelled)
3. (Currently Amended) A method as claimed in claim 2 1 wherein the step of attenuating coherent noise in the high frequency range in the seismic data comprises a point source-point receiver noise attenuation step.
4. (Currently Amended) A method as claimed in claim 2 1 or 3, and comprising attenuating coherent noise at frequencies over 100Hz.
5. (Currently Amended) A method of seismic surveying comprising:
actuating a seismic source to emit seismic energy;
acquiring seismic data representative of the acceleration wavefield using a seismic receiver spaced from the seismic source; and
processing the seismic data according to a method defined in claims 1, 3 and to
4.

6. (Original) A method as claimed in claim 5 wherein the seismic source and the receiver are each disposed at or on the earth's surface.
7. (Original) A method as claimed in claim 5 wherein the seismic source is disposed at or on the earth's surface and the receiver is disposed within a borehole.
8. (Original) A method as claimed in claim 5 wherein the seismic source is disposed in a water column and the receiver is located at the base of the water column.
9. (Original) A method as claimed in claim 5 wherein the seismic source is disposed in a water column and the receiver is disposed within a borehole.
10. (Currently Amended) An apparatus, comprising:
an input interface for receiving seismic data representative of acceleration wavefield;
a data processor; and
memory comprising program instructions executable by the processor to:
for processing process the seismic data representative of the acceleration wavefield thereby to obtain information about the earth's subsurface direct from the seismic data representative of the acceleration wavefield; and
attenuate coherent noise in a high frequency range in the seismic data.
11. (Cancelled)
12. (Currently Amended) A seismic surveying arrangement comprising:
a seismic source for emitting seismic energy;
a seismic receiver for acquiring seismic data representative of the acceleration wavefield, the seismic receiver being spaced from the seismic source; and
an apparatus as claimed in claim 10 ~~or 11~~ for processing seismic data acquired by the receiver.

13. (Original) A seismic surveying arrangement as claimed in claim 12 wherein the seismic source and the receiver are each disposed at or on the earth's surface.

14. (Original) A seismic surveying arrangement as claimed in claim 12 wherein the seismic source is disposed at or on the earth's surface and the receiver is disposed within a borehole.

15. (Original) A seismic surveying arrangement as claimed in claim 12 wherein the seismic source is disposed in a water column and the receiver is located at the base of the water column.

16. (Original) A seismic surveying arrangement as claimed in claim 12 wherein the seismic source is disposed in a water column and the receiver is disposed within a borehole.

17. (Currently Amended) A storage medium containing a program for the data processor of an apparatus as defined in claim ~~11~~ 10.

18. (Currently Amended) A storage medium containing a program for controlling a programmable data processor to carry out a method as defined in any of claims 1, 3 and ~~to~~ 4.

19. (Currently Amended) A program for controlling a computer to carry out a method as defined in any of any of claims 1, 3 and ~~to~~ 4.